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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,384	-	07/07/2003	Steven R. Hilliard	27234.01	7445
22465	759	0 05/06/2005		EXAMINER	
		RITTIAN P C	DEB, ANJAN K		
P O BOX 51295 KNOXVILLE, TN 37950-1295				ART UNIT	PAPER NUMBER
,				2858	
				DATE MAILED: 05/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Sugal	Application No.	Applicant(s)					
Jopp 1.	10/614,384	HILLIARD ET AL.					
Notice of Allowability	Examiner	Art Unit					
·	Anjan K. Deb	2858					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendment filed 11/18/2004.							
2. ⊠ The allowed claim(s) is/are <u>1-35, 37,38</u> .	_						
3. ☑ The drawings filed on <u>07 July 2003</u> are accepted by the Ex	kaminer.						
4. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the					
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give							
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 							
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MATERIAL I	must be submitted. Note the AL MATERIAL.					
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	6. Interview Summary Paper No./Mail Da 08), 7. Examiner's Amendo	te					

DETAILED ACTION

1. This office action is in response to amendment filed 11/18/2004.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In claim 15, first line replace, "circuit of Claim 15" with --circuit of claim 12--

Allowable Subject Matter

2. Claims 1-35, 37,38 are allowed.

Pertinent Art

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sako (US 6,104,199) discloses circuit for detecting loop inductance (short circuit of coil of a magnetic head) connected between two points (Hx, Hy) comprising a pair of driver circuits (I₁,I₂), and producing a digital output (out) representing the state of the coil (Fig. 1). Sako lacks

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demodulation circuit in electrical communication with the pair of driver circuits and producing a digital signal representing an inductance of the loop (coil).

Shimizu (US 5,592,097) discloses circuit for detecting loop inductance (LH) connected between two points (4, 6) comprising a pair of driver circuits (Q₁,Q₃) and producing a digital output 13 representing the state of the coil (Fig. 5). Shimizu lacks demodulation circuit in electrical communication with the pair of driver circuits and producing a digital signal representing an inductance of the loop (coil).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is (571)-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le, can be reached at (571)272-2233.

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4/28/05